occasionally either entirely wanting or existing as a continuation of the margin of the basal patch on primaries; on the upper margin the shade appears to be constant, although sometimes obscured so as to appear a dull gray.

Similar variations are observable in the abdomen, vermillion and white, red, black and white, and rarely dark brown and white (the color of the wings); and in the wings, which may be dark brown sprinkled slightly with gray, and opaque or dull black, and semi-transparent; one specimen in my collection, with the primaries of the first and secondaries of the latter color, presented a curious appearance; this was one of two taken from *Ampelopsis quinquefolia*, the other having both wings thin and silky, and nearly as black as *Papilio asterias*. The palpi usually agree with the body, as do the legs; in this case both are dark red.

Notwithstanding these differences and the wide range in size (4½ to 7¼ inches being the extremes of perfect moths in my possession), eccropia agrees so well in general appearance that, aside from the black variety mentioned above, a distinctly marked variety is a rarity, the nearest approach I have seen being in four 3 moths from cocoons found on rose bushes, in which nearly all the space on the primaries between the basal spot and the border, is finely flushed with red, which grows fainter outwardly, the same red flush being continued down the abdominal margin of secondaries, giving the entire moth a reddish hue; the occurrence of red on the primaries is not extremely rare, but I have never seen others than these with red on the secondaries, except in the border.

SYNONYMY OF THE COLEOPTERA OF THE FAUNA BOREALI-AMERICANA, KIRBY.

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(Continued).

- 145. Oiceoptoma americanum Linn. has been known by the ante-Linnean name of *peltata*.
- 146. "TERMINATUM Kby. is a variety of the preceding.
- 147. " AFFINE Kby., variety of 145.
- 148. " CANADENSE Kby., variety of 145.

- 149. Peltis ferruginea Linn.
- 150. Nitidula obscura Fab.
- 151. " ossium Kby., same as 150.
- 152. " discoidea Fab. Subsequently described as Omosita inversa Lec., from California.
- 153. Ips Dejeanii Kby. is vittatus Say.
- 154. Choleva Spenciana Kby. is a Catops.
- 155. SCAPHIUM CASTANIPES Kby. is very rare. Occurs also in the White Mts., N. H.
- 156. Leiodes Punctatostriatus Kby. is Anisotoma indistincta Lec.
- 157. Corticaria DENTICULATA Kby. The name is preoccupied and was changed to *Kirbyi* Lec. It is probably DELETUS Mann.
- 158. Atomaria atra Steph. (Kby.) Incorrectly determined by Kirby and is probably a dark variety of LAETULA Lec.
- 159. Cryptophagus Humeralis Kby. is a Triphyllus, and is *ruficornis* Lec.
- 160. " CONCOLOR Kby. A variety of the preceding.
- 161. Attagenus Cylindricus K.by. Belongs to a new genus, Perime-Gatoma Horn. Trans. Am. Ent. Soc., 1875, p. 135.
- 162. " pellio Linn.
- 163. Dermestes lardarius Linn.
- 164. " DISSECTOR Kby. is NUBILUS Say.
- 165. Byrrhus PICIPES Kby. Name is preoccupied and is now KIRBYI Lec.
- 166. "CONCOLOR Kby. Now known to us. Is not a variety of Cytilus varius Fab., but appears to be a small CYCLOPHORUS Kby.
- 167. "CYCLOPHORUS Kby.
- 168. " varius Fab. This is an erroneous determination. The species is CYTILUS TRIVITTATUS Mels.
- 169. Hydrobius fuscipes Linn.
- 170. "marginellus Fab. Probably an erroneous determination and may be Philhydrus fimbriatus Mels.
- melanocephalus Ol. An erroneous determination and is Philhydrus perplexus Lec. I have specimens from Mr. Pettit which correspond with Kirby's description of both the above species.
- 172. Hister Paykulii Kby. is depurator Say.

- 173. Hister Harrisii Kby.
- 174. Onthophagus latebrosus Fab. is HECATE Panz.
- 175. "SCABRICOLLIS Kby. is JANUS Panz.
- 176. Trox arenarius Fab. (Kby.) This may be AEQUALIS Say.
- 177. Pelidnota punctata Linn.
- 178. Camptorhina Atracapilla Kby. is Serica Vespertina Schonh.
- 179. Diplotaxis TRISTIS Kby.
- 180. Rhizotrogus fervens Gyll. (Kby.) is Lachnosterna fusca Fröhl.
- 181. "Drakii Kby. A race of 180.
- 182. Dichelonycha BACKII Kby.
- 183. "VIRESCENS Kby. is ELONGATULA Schonh. Variety C is SUBVITTATA Lec.
- 184. " TESTACEA Kby.
- 185. Cetonia fulgida Fab. is Euryomia fulg.
- 186. Trichius Bigsbii Kby. is Gnorimus maculosus Kn.
- 187. " ASSIMILIS Kby. is AFFINIS Gory.
- 188. " ROTUNDICOLLIS Kby. is PIGER Fab.
- 189. "VIRIDANS Kby. is AFFINIS Gory.
- 190. Gymnodus FOVEATUS Kby. &
- 191. "RUGOSUS Kby. Q is OSMODERMA SCABRA Beauv.
- 192. Platycerus piceus Weber (Kby.) is erroneously determined and is DEPRESSUS Lec.
- 193. Passalus interruptus Linn. (Kby.) is cornutus Fab.
- 194. Campylus denticornis Kby.
- 195. Pedetes Brightwelli Kby. is an Athous.
- 196. " (Asaphes) Ruficornis Kby. is Asaphes memnonius Hbst.
- 197. Perimecus fulvipes Hbst. (Kby.) is Melanotus castanipes Payk.
- 198. " communis Gyll. is also a Melanotus.
- 199. "SIMILIS Kby. A MELANOTUS, but the synonymy is unknown.
- 200. Ctenicerus Kendalli Kby. is Corymbites virens Schr.
- 201. Elater Aeripennis Kby. is a Corymbites.
- 202. Buprestis Rusticorum Kby. is a variety of maculiventris Say.
- 203. "PAGANORUM Kby. is 202.
- 204. "NUTTALLI Kby.
- 205. " lineata Fab.
- 206. "fasciata Fab.
- 207. "divaricata Say is a DICERCA.
- 208. "TENEBROSA Kby. is a DICERCA.

- 209. Buprestis Tenebrica Kby. may be the same as Dicerca lugubris Lec.
- 210. "TRINERVIA Kby. is a CHRYSOBOTHRIS.
- 211. " PROXIMA Kby. is CHRYSOBOTHRIS SCABRIPENNIS Lap. et Gory.
- 212. "DRUMMONDII Kby. is a MELANOPHILA.
- umbellatarum Fab. (Kby.) is erroneously determined and is Anthaxia inornata Rand.
- appendiculata Fab. (Kby.) is erroneously determined and is Melanophila longipes Say.
- 215. Agrilus BIVITTATUS Kby. is BILINEATUS Weber.
- 216. Trachys AURULENTA Kby. is BRACHYS OVATA Weber.
- 217. "ACUDUCTA Kby. Mr. E. Saunders (Trans. Ent. Soc., London, 1868, p. 60) says this is a CISSEIS and from Australia.
- 218. Pytho NIGER Kby.
- 219. " AMERICANA Kby.
- 220. Trogosita AMERICANA Kby. is probably corticalis Mels.
- 221. Monochamus Resutor Kby. is scutellatus Say.
- 222. "CONFUSOR Kby.
- MARMORATOR Kby. is probably that variety of scu-TELLATUS Say, called *Oregonensis* Lec.
- 224. Acanthocinus (Graphisurus) PUSILLUS Kby. is now called GRAPHI-SURUS PUSILLUS Kby.
- 225. Callidium AGRESTE Kby. is a CRIOCEPHALUS.
- 226. " striatum Linn. (Kby.) is ASEMUM MOESTUM Hald.
- 227.- " COLLARE Kby. is now GONOCALLUS COLLARIS.
- 228. " PROTEUS Kby. is now MERIUM PROTEUS.
- 229. "SIMILE Kby. is 228.
- 230. "DIMIDIATUM Kby. is a PHYMATODES.
- 231. " (Tetropium) CINNAMOPTERUM Kby. is known as a Te-TROPIUM.
- 232. Clytus undatus Kby. is Xylotrechus undulatus Say.
- 233. "LUNULATUS Kby. is the same.
- 234. " Fuscus Kby. A variety of the same.
- 235. " LONGIPES Kby. is a NEOCLYTUS.
- 236. "MURICATULUS Kby. is a NEOCLYTUS and has since been described as *leucozonus* Lap.
- 237. Hargium lineatum Ol. is a RHAGIUM.

- 238. Pachyta LITURATA Kby.
- 239. Leptura Chrysocoma Kby.
- 240. "SUBPUBESCENS Kby. is PROXIMA Say.
- 241. " ERYTHROPTERA Kby. Variety of 242.
- 242. " canadensis Ol.
- 243. "TENUIOR Kby. is Typocerus velutinus Ol.
- 244. "BREVIS Kby. is L. VAGANS Ol.
- 245. " sexmaculata Linn.
- 246. "SEMIVITTATA Kby. is L. VITTATA Ol.
- 247. "GULOSA Kby. is also L. VITTATA Ol.
- 248. "SUBARGENTATA Kby.
- 249. "SIMILIS Kby. is rufibasis Lec.
- 250. "LONGICORNIS Kby. is Acmaeops marginalis Lec.
- 251. "PROTEUS Kby. is an Acmaeops.
- 252. "LONGICEPS Kby. is Acmaeops pratensis Laich.
- 253. Anobium Foveatum Kby. is a Hadrobregmus.
- 254. Cis micans Fab. (Kby.) Unknown; seems to be Chevrolatii Mell.
- 255. Tomicus pini Say.
- 256. Apate BIVITTATA Kby. is a XYLOTERES.
- 257. " RUFITARSIS Kby. is a Xyloteres unknown to us.
- 258. " (Lepisomus) RUFIPENNIS Kby. is a Polygraphus.
- 259. " (Lepisomus) NIGRICEPS Kby. Probably the same as 258.
- 260. " (Lepisomus) Brevicornis Kby. Unknown.
- 261. Hylurgus Rufipennis Kby. is a Dendroctonus.
- 262. Calandra pertinax Ol. is a Sphenophorus.
- 263. Hylobius confusus Kby.
- 264. Lepyrus colon Linn.
- 265. · " GEMELLUS Kby.
- 266. Cleonis VITTATUS Kby. is CLEONUS.
- 267. Macrops maculicollis Kby.
- 268. " VITTICOLLIS Kby.
- 269. Lepidophorus lineaticollis Kby.
- 270. Trachyphloeus MELANOTHRIX Kby. Constitutes, with a California species, a new genus, Geoderces Horn.
- 271. Pachyrhynchus Schonherri Kby. is Ithycerus noveboracensis Forst.
- 272. Attelabus SIMILIS Kby. is ANALIS Illig.
- 273. " bipustulatus Fabr.